

I CLAIM AS MY INVENTION:

1. In an X-ray tube having a metallic vacuum housing containing an anode and a cathode which emits an electron beam proceeding from said cathode to said anode, the improvement comprising a surface of said metallic vacuum housing having a plurality of notches therein.

2. The improvement of claim 1, wherein said surface is inside said metallic vacuum housing.

3. The improvement of claim 1, wherein said notches are less than 0.5mm deep.

4. The improvement of claim 1, wherein said notches are less than 0.3mm deep.

5. The improvement of claim 1, wherein the distance between two notches of said notches is between 0.5mm and 1mm.

6. The improvement of claim 1, wherein said notches are lattice-shaped.

7. The improvement of claim 1, wherein said notches are located where electrons, of said electron beam, which are scattered when striking said anode, most likely strike said surface of said metallic vacuum housing.

8. The improvement of claim 1, wherein said metallic vacuum housing comprises a chamber containing said cathode, a volume containing said anode, and a shaft-shaped housing section, through which said electron beam proceeds from said cathode to said anode, connecting said chamber to said volume.

9. The improvement of claim 8, wherein said notches are located around a region where said shaft-shaped housing section meets said volume.